

### **BOARD OF COMMISSIONERS**

I S. Main St., 9th Floor Mount Clemens, Michigan 48043 586-469-5125 FAX 586-469-5993 macombcountymi.gov/boardofcommissioners

### BUILDINGS, ROADS AND PUBLIC WORKS COMMITTEE MONDAY, FEBRUARY 2, 2009

### **AGENDA**

1. 2. 3. 4. 5.	Call to Order Pledge of Allegiance Adoption of Agenda Approval of Minutes dated 11-12 and 12-3 (Operational Services), 2008 (previously distributed) Public Participation			
6.	<u>Invoices</u> : (mailed			
	a)	Bernco, Inc./Juvenile Justice Center-Phase II Renovations (\$225,915.	42)	
7.	Statu	s Report Re: Juvenile Justice Center – Phase II Renovation	(mailed)	
8.	Overview of Facilities and Operations Department (mailed)			
9.	Discussion Re: Independence Building at Freedom Hill (mailed)			
10.	Report by Public Works Department Re: Current Projects and Proposed (mailed) Economic Stimulus Projects			
11.	Repo	rt by Road Commission:		
	a) b) c) d) e)	List of Economic Stimulus Plan Projects Submitted to State Represent 2008-09 Construction Budget Macomb County Road Improvement Plan Bridge Program Update Traffic Signal Modernization and Optimization Plan	ratives (mailed) (mailed) (mailed) (mailed) (mailed)	
12. 13. 14.	New Business Public Participation Adjournment			

MEMBERS: Duzyj-Chair, Carabelli-Vice-Chair, DiMaria, Szczepanski, Doherty, Brdak, Boyle, Kepler, Sprys and Gieleghem (ex-officio)

### MACOMB COUNTY BOARD OF COMMISSIONERS

Andrey Duzyj - District 1 Marvin E. Sauger - District 2 Phillip A. DiMaria - District 3 Toni Moceri - District 4 Susan L. Doherty - District 5 Sue Rocca - District 7 David Flynn - District 8 Robert Mijac - District 9 Ken Lampar - District 10 Ed Szczepanski - District 11 James L. Carabelli - District 12 Don Brown - District 13 Brian Brdak - District 14 Keith Rengert - District 15

Carey Torrice - District 16

Paul Gieleghem Kathy Tocco
District 19 District 20
Chairman Vice Chair

Joan Flynn District 6 Sergeant-At-Arms

Ed Bruley - District 17 William A. Cre
Dana Camphous-Peterson - District 18 Michael A. Bo
Irene M. Kepler - District 21 Kathy D. Vost
Frank Accavitti Jr. - District 22 Jeffery S. Spry

William A. Crouchman - District 23 Michael A. Boyle - District 24 Kathy D. Vosburg - District 25 Jeffery S. Sprys - District 26

RESOLUTION NO.	
	FULL BOARD MEETING DATE:
	AGENDA ITEM:
	MACOMB COUNTY, MICHIGAN
RESOLUTION TO:	Authorize payment to Bernco, Inc., in the amount of \$225,915.42 for construction services
performed for the Juvenile	Justice Center - Phase II Renovations.
Application No. 16. Files f	or this Project are available in the Capital Budget.
INTRODUCED BY:	Commissioner Andrey Duzyj, Chair
	Buildings, Roads & Public Works
COMMITTEE/MEETING D	ATE
Buildings, Roads & Public	Works: 2/2/09

APPLICATION AND CERTIFICATE FOR PAYMENT	FICATE FOR PAYMENT	AIA DOCUMENT G702		PAG
TO OWNER:	PROJECT:			
County of Macouth	Macomb County	APPLICATION NO:	16	DISTRIBUTION TO:
13th Eloca	Juvenile Justice Center	APPLICATION DATE:	1/31/2009	x OWNER
Charle Alexander	Phase il Renovations	PERIOD TO:	1/31/2009	x CONTRACTOR
th Carrens III Abha		BERNCO JOB#	2007.008	x ARCHITECT
FROM CONTRACTOR: BERNGO, INC.	VIA ARCHITECT: Wakely Associatios, Inc.	INVOICE NO:	1847	
20816 Eleven Hile Road, St. Ciair Shores, M. 48081	e, NG 48081 30500 Ven Dyke Ave., Suite M	CONTRACT DATE:		
	Warner III Achor			

completed in accordance with the Contract Documents, that all amounts have been The undersigned Contractor certifies that to the best of the Contractor's knowledge information and belief the work covered by this Application for Payment has been paid by the Contractor for Work for which previous Certificates for Payment were issued and payments received from the Owner, and that curent payment shown herein is now due. \$6,249,000.00 \$306,543.00

CONTRACTOR: BERNCQ, INC. 씂

Bernard Cathvara

Subscribed and sworth to I

Date:

County of: Macomb State of Michigan

\$6,183,378.04

\$308,168.90

My Commission explres: 12-9-2011 Notary Public:

# ARCHITÉCT'S CERTIFICATE FOR PAYMENT

\$5,874,209.14

\$309,168,90

in accordance with the Central's Documents, based on the on-site observations and as indicated, the quality of the Work is in accordance with the Contract Documents the data computating this application, the Architect certifies to the Owner that to the sest of the Architectis knowledge, information and belief the Work has progressed

\$5,648,293.72

225,915,42 ell (Igures on Uris Application and on the Continuation Sheet that are changed to AMOUTH VERTITIES A STRONG CONTINUE OF THE TOWN THE EMOUNT Applied for Initial conform to the amount certified.) ANOUNT CERTIFIED.

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prejudice to any rights of the Owner or Contractor under this Contract. \$225,915,42 \$681,333.86 DEDUCTIONS \$306,543.00 \$306,543.00 \$306,543.00 ADDITIONS 9, BALANCE TO FINISH, INCLUDING RETAINAGE... TOTALS VET CHANGES by Change Order 8. CURRENT PAYMENT DUE CHANGE ORDER SUMMARY (Line 3 Yeas Line 6) Cotal changes approved in mayious months by Owner otal approved this month

7700C1000C

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CONTRACT FOR

CONTRACTOR'S APPLICATION FOR PAYMENT

Application is made for payment, as shown below, in connection with the Contract

Continuation Sheet, AIA Document G703, is attached. 1. ORIGINAL CONTRACT SUM... 2. Net change by Change Orders.

3. Contract sum to date (Line 1+/-2).......

\$6,955,543.00

4. TOTAL COMPLETED & STORED TO DATE.

(Codumn G on G703) 5, RETAINAGE:

of Completed Work

æ

(Columns D + E on G703) of Stored Material

Total in Column I of G703) Fotal Retainage (Line 5a + 5b or (Co)umn F on G703)

8. TOTAL EARNED LESS RETAINAGE.

(Line 4 less Line 5 Total)

7. LESS PREVIOUS CERTIFICATES FOR PAYMENTS

(Line 6 from prior Certificate)........

and the Contractor is entitled to payment of the AMOUNT CERTIFIED.

ARCHITECT

From:

"Ron Syme Jr" <rsyme@wakelyaia.com> Jennifer.Dudzinski@macombcountymi.gov

To: Date:

Jennifer.Dudzinski@macombcounty 1/23/2009 1:18:05 PM

Subject:

RE: Percentage Breakdown

Dear Lynn:

The breakdown for January pay app #16 is as follows:

Architectural 96%

Mechanical 97%

Electrical 97%

Overall 96%

# RECYCLABLE PAPER

RESOLUTION NO.		
	FULL BOARD MEETING DATE:	
	AGENDA ITEM:	·
	MACOMB COUNTY, MICHIGAN	
RESOLUTION TO:	Receive and file Juvenile Justice Center - Phase II Renovation Status Report.	
	·	
INTRODUCED BY:	Commissioner Andrey Duzyj, Chair	
	Buildings, Roads & Public Works	W
COMMITTEE/MEETING	G DATE	
Buildings, Roads & Publ	lic Works: 2/2/09	

### Macomb County Juvenile Justice Center – Phase II Project No. 071229 Wakely Associates, Inc. /Architects Page 1 of 1

### Status Report

### January 21, 2009

- 1. Interior painting continues with most scheduled areas, walls, ceilings, doors and door frames painted.
- 2. Ceramic tile is being installed in the new toilet and shower rooms.
- 3. Sealant and caulking is being installed on the interior of the building.
- 4. The majority of the non-secure and secure doors have been hung. The remainder of door finish hardware and associated glazing remains to be installed.
- 5. The majority of the acoustic ceilings have been installed. Lighting and diffusers are in place. The remainder of the corridor ceilings will be installed upon completion of the fire dampers.
- 6. Standing seam roof at the exterior canopy/walkway (connecting the former housing unit wing to the new housing unit wing) is complete.
- 7. Sprinkler piping throughout the phase two building interior is complete.
- 8. Backstops and backboards at the exterior recreation yard of the new housing unit have been installed.
- 9. Finishing the installation of the elevator in the former housing unit originally started by the previous Contractor is being reviewed between Bernco and Schlinder Elevator.
- 10. The site has been rough/finish graded and will be seeded/restored in the spring.
- 11. Phase II water service work in the occupied medical area of the first phase has been completed.
- 12. Office of Fire Safety and local inspections are anticipated between March 16<sup>th</sup> and March 20<sup>th</sup>, 2009. The anticipated project completion date and turn over to the Owner is April 13, 2009.

Cc: Lynn Arnott-Bryks, Macomb County Facilities and Operations Jennifer Dudzinski, Macomb County Facilities and Operations Architect File

### RECYCLABLE PAPER

	8.				
RESOLUTION NO FULL BOARD MEETING DATE:					
	AGENDA ITEM:				
	MACOMB COUNTY, MICHIGAN				
PESOLUTION TO	receive and file the information provided on the Facilities and Operations				

INTRODUCED BY: Andrey Duzyj, Chair, Buildings, Roads and Public Works Committee

BR&PW 2-2-09

**Department** 

### **FACILITIES & OPERATIONS DEPARTMENT**

### **OVERVIEW:**

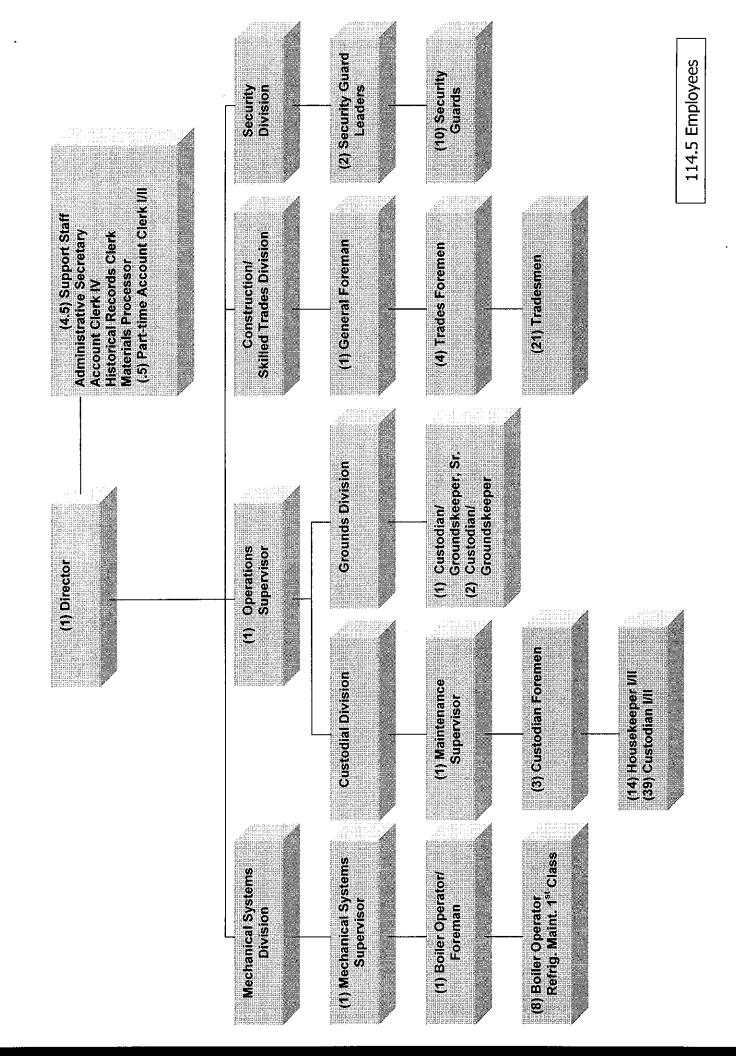
The Department of Facilities & Operations is structured to coordinate professional services in planning, construction, maintenance and operations of all County-owned buildings and grounds.

The Department is composed of facilities operations, mechanical maintenance, building maintenance and security. The entire operation is coordinated through an administrative section.

The operations and mechanical maintenance division is responsible for the proper operations and maintenance of the mechanical equipment in all County Facilities.

The building maintenance division provides the personnel, material and equipment to plan and direct the technical services of maintenance, custodial services, building management and County skilled trades forces for the existing County-owned facilities.

Facilities & Operations has 111.5 employees and maintains approximately 1,800,000 square feet of buildings.



### **Building Addresses**

Administration Building, One South Main St., Mt. Clemens, MI 48043

Animal Shelter, 21417 Dunham Rd., Clinton Twp., MI 48036

Sheriff's Marine Patrol Boathouse, 33125 South River Road, Mt. Clemens, MI 48045

Central Receiving Building, 21930 Dunham Rd., Mt. Clemens, MI 48043

Clemens Center, 32 Market St., Mt. Clemens, MI 48043

Circuit Court Probation

**District Court Probation** 

Bureau of Consumer & Industry Services

County Building, 10 N. Main St., Mt. Clemens, MI 48043

Court Building, 40 N. Main St., Mt. Clemens, MI 48043

District Court 42-I, 14713 33 Mile Rd., Romeo, 48065

District Court 42-II, 35071-23 Mile Road, New Baltimore, MI 48047

Hall Road Warehouse, 44900 Vic Wertz Drive, Clinton Twp., MI 48036-1251

Health Center, 43525 Elizabeth Rd., Mt. Clemens, MI 48043

Independence Building, 15000 Metro Parkway, Sterling Heights, MI 48078

Jail Building, 43565 Elizabeth Rd., Mt. Clemens, MI 48043

Juvenile Court Building, 380 N. Rose, Mt. Clemens, MI 48043

Juvenile Justice Center, 400 N. Rose, Mt. Clemens, MI 48043

Library Building, 16480 Hall Rd., Mt. Clemens, MI 48044

Majestic Plaza, 27690 Van Dyke, Warren, MI 48093

Martha T. Berry Medical Care Facility, 43533 Elizabeth Rd., Mt. Clemens, MI 48043

Medical Examiner's Office, 43585 Elizabeth Rd., Mt. Clemens, MI 48043

Paint Shop, 21930 Dunham Rd., Mt. Clemens, MI 48043

Parking Structure, 31 Market St., Mt. Clemens, MI 48043

Probate Court Building, 21850 Dunham Rd., Mt. Clemens, MI 48043

Public Works Building, 21777 Dunham Road, Clinton Township, MI 48036 - 1005

Skilled Trades Field Office, 21930 Dunham Rd., Mt. Clemens, MI 48043

Skilled Trades Shop, 21930 Dunham Rd., Mt. Clemens, MI 48043

Southeast Health Center, 25401 Harper, St. Clair Shores, MI 48081

Robert A. VerKuilen Building, 21885 Dunham Rd., Clinton Twp., MI 48036

### **Gross Square Footage - County Buildings Maintained**

Administration Building	129,000
Animal Shelter	11,692
Boathouse	4,800
Central Receiving	25,254
Clemens Center	58,610
Renovated Area: 34,671	
Formerly Ruge's 2,120	
Formerly Sorrento's 1,440	
Formerly Rite Aid 12,209	
Formerly St. Joseph Hosp. 3,740	
Formerly Dr. Purdy 1,600	
Formerly Dispute Resolution C 1,180	
Formerly Detroit Edison 1,650	
County Building and Penthouse	108,500
Court Building, Tunnel and Penthouse	195,200
Jail Building	270,454
Juvenile Court	20,000
Juvenile Justice Center	96,920
Library Building	29,500
Majestic Plaza	39,563
DHS 24,147	
Health Dept. 15,416	
Martha T. Berry Medical Care Facility	118,650
New Area: 39,000	
Renovated Area: 79,650	
Mount Clemens Health Center	31,600
North Area Satellite Facility (Romeo Court)	17,000
Parking Structure	235,000
Probate Court Facility	20,480
Public Works	8,600
Robert A. VerKuilen Building	78,500
Robert A. VerKuilen Building Addition	40,368
Southeast Health Center	32,200
Trade Field Office and Shops	4,000
TOTAL GROSS SQUARE FOOTAGE:	1,575,891
NEW COUNTY FACILITIES	226,125
GRAND TOTAL:	1,802,016

### **Gross Square Footage - New County Facilities**

Medical Examiner's Office (Morgu	e)	6,200
Public Works		31,871
1st Floor:	18,300	
Basement	13,571	
42nd District Court (New Baltimore	e)	40,000
1st Floor:	20,000	
Basement	20,000	
Juvenile Justice Center		41,640
ADDITIONAL SQUARE	FOOTAGE UPON COMPLETION OF RENOVATION	
Hall Road Warehouse (when fully	operational)	106,414

TOTAL GROSS SQUARE FOOTAGE:

226,125

### RECYCLABLE PAPER

RESOLUTION NO	7.  FULL BOARD MEETING DATE:  AGENDA ITEM:	_
MAC	OMB COUNTY, MICHIGAN	
RESOLUTION TO receive and file the iregarding the Independence Building a	nformation provided by the Facilities and Operations Department Freedom Hill	<u>t</u>

INTRODUCED BY: Andrey Duzyj, Chair, Buildings, Roads and Public Works Committee

COMMITTEE/MEETING DATE
BR&PW 2-2-09

2200



### **FACILITIES & OPERATIONS DEPARTMENT**

10 N. Main St., 13th Floor Mount Clemens, Michigan 48043 586-469-5244 FAX 586-469-7770

Lynn M. Arnott-Bryks Director

Diane G. Connell Operations Supervisor

Larry K. Oakes Mechanical Systems Supervisor TO:

Commissioner Andrey Duzyj, Chairman

Building, Roads & Public Works Committee

SUBJECT:

Independence Building

Freedom Hill

DATE:

January 21, 2009

Prior to the Parks and Recreation Department vacating the Independence Building at Freedom Hill, our office had several meetings and discussions relative to securing the building and inventory.

The purpose of this correspondence is to inform the Board of the actions taken to date, and determine if the Board wishes us to handle this building differently or assign this function to another Department.

The Parks and Recreation Department employee's last day of work was December 30, 2008. Our office obtained the keys and implemented the following:

- 1. Change security code as it relates access to the building.
- Changed fire identification code and 24 hour emergency call-in list from the Parks & Recreations employee's to Facilities & Operations emergency phone numbers.
- Inventory was audited by the Finance Department.

### MACOMB COUNTY BOARD OF COMMISSIONERS

4. In order to secure the inventory the items were transferred and secured at the Hall Road Warehouse and the former Central Receiving Building.

Following transfer of the inventory, an audit was once again conducted (See Attachment A).

In the event items are relocated from this inventory and stored elsewhere, the Finance Department will track the movement in order to provide an audit trail.

- 5. Parks and Recreation Department's mail was transferred to the Facilities & Operations Department for the purpose of paying invoices. These invoices will be processed and forwarded to the Finance Department for payment.
- 6. The space temperature in the building was lowered to 55 degrees.
- 7. A propane tank supplied heat to the shed located on the Park grounds. The shed housed the grounds and snow removal equipment. Due to the condition of the shed (heat loss) it was very costly to heat. In order to reduce expenses, the above ground tank was shut off.
- 8. The IT Department terminated and removed phones and computers. Telephone lines were retained for fire/burglar alarms and one emergency phone.
- 9. The IT Department placed a voice message indicating the status of the Park in the event the main line is dialed. The Parks and Recreation website was also reviewed.
- 10. Files are in the process of being secured and it is our intent to send the files to Archives.

Files regarding invoice payment and/or information regarding the building are being be retained by Facilities & Operations and utilized for proper payment of utility invoices and addressing building issues.

- 11. It is our understanding snow removal along the bike path (as it pertains to Park property) is the responsibility of the County. Facilities & Operations will attempt to assume that removal and is verifying with Corporation Counsel that responsibility.
- 12. We are in the process of installing an alarm that would notify of Boiler failure and/or malfunction.
- 13. The playground equipment was inventoried, but requires periodic inspections. We are checking to see if the periodic inspections and adjustments require the individual to be certified.
- 14. The vehicles assigned to the Parks & Recreations Department were secured by the Fleet Manager.

The County has a considerable asset in the building and grounds that will require periodic maintenance and/or fulfill any contractual obligations that may exist. It is our intent to periodically check on this building (possibly a couple times per week) for possible building issues.

Please note, Mr. Dino Bucci, Parks & Recreation Commission President, has been in contact with our office relative to the possibility of Public Works employee's assuming the responsibility and providing certain park activities. If that is the direction of the Board, the Public Works Department would require the equipment, files, etc.

Mr. Dino Bucci, Parks & Recreation Commission President, will be in attendance, along with the undersigned to respond to any questions.

Also, it is our understanding the Board of Commissioners may wish the Park grounds to be usable by the public as a passive park.

Should you require any additional information or have further questions, please contact the undersigned.

Respectfully,

Lynn M. Arnott-Bryks, Director

Facilities & Operations Department

LMAB:jsd

ATTACHMENT A

### **PARKS & RECREATION INVENTORY LIST**

### Hall Road Warehouse

### 1 8-foot Western plow, deflector, old 2 Curtis Cab for gator 3 Woods post hole digger 4 Land Pride aerator 5 7-foot box blade 6 7-foot back blade 7 8-foot York rake 8 6-foot roto-vator 9 6-foot roller 10 8-foot roller (A) 11 back hoe attachment 12 utility trailer, not road-worthy (A) 13 22-foot utility trailer 14 6-foot Woods finish mower 15 6-foot Woods finish mower 16 6-foot bush hog mower 17 Lawn Boy hand mowers 18 828D John Deere snow blower (B) 19 yard machine 4.5 hp hand mower 20 Honda generator Home light generator 21 22 Honda FG500 roto tiller 23 Snapper 4 hp roto tiller 24 Honda 260 psi power washer 25 Honda 5 hp north star power washer 26 plate compactor 27 power edger 28 power hedge trimmers 29 Stihl FS 90 R weed eater 4 mix 30 Stihl FS 100 FX weed eater 4 mix 31 Echo weed eater 32 Stihl 4 mix pole saw 33 Stihl H545 gas pruners 34 Little Wonder 8 hp blower Little Wonder 8 hp blower 35 36 Little Wonder 9 hp blower 37 back pack blower

38

leaf rakes

### old Receiving Building

2004 Ford Taurus LX sedan 2001 Ford F350 4x4 truck 2004 Ford F250 4x4 truck 2006 Ford F350 4x4 truck 8-foot Western plow on the F350 8-foot Western V plow on the F350 4210 John Deere tractor 5200 John Deere tractor Cub Cadet 4x4 diesel utility vehicle John Deere Gator, 4x6 diesel John Deere F1145 front deck mower Toro Z master mower Hustler 17 hp walk-behind mower Curtis salt spreader for gator Gill Salt spreader, 3-point 6-foot Woods bush hog mower Billy Goat vacuum golf cart Land Pride brush hog w/3decks

39		3	scoop shovels
40		3	spade shovels
41		3	squeegees
42		5	rakes
43		•	pitch fork
44		2	flat shovels
45		_	hand post hole digger
46			hand tamper
47			pick axe
48			garden hoe
49		3	trenching shovels
50		2	landscape rakes
51			long hand wood trowel
52		2	auger attachments
53		8	small hand garden tools
54		6	shelves, various paving tools
55		4	10x10 tents
56			20x20 tent
57		4	water stations for festival grounds (C)
58			assorted spare tires and tubes
59	6	0	(or more) orange parking cones (C)
60			fiberglass 10-foot extension ladder
61			aluminum 10-foot extension ladder
62			aluminum 8-foot step ladder
63	:	2	sump pumps
64	1	0	spider boxes
65	1	2	spider cords
66			tractor mounted step down transformer
67	;	3	step-down transformers
68	2	2	Stihl chain saws
69			shelf oil and lube for chain saws
70			Ryobi 12-inch drill press
71			Rockwell grinder
72			Dewalt radial miter saw
73			Milwaukee chop saw
74			Delta table saw
75			Sears Craftsman arc welder
76			Rigid 6.5 gallon tank vac
77			set of cutting torches
78			Curtis air compressor (A)
79			shelf of safety equipment
80			socket set
81			drawer of screwdrivers
82			drawer of sockets

83		drawer of wrenches
84		drawer of pliers
85		drawer of bolt cutters/files
86		rolling tool box
87		box of drill bits
88		pneumatic tools, 2 drawers
89		misc lubes and oils, 2 shelves
90		small power/hand tools, 5 shelves
91	14	cases of oil, some full/some partial
92	5	grease guns
93		extension cords, 3 shelves
94		temp lighting, 2 shelves
95		misc lubes and sprays, 4 shelves
96		filters (oil-, air-), 3 shelves
97		blades and belts, 2 shelves
98		shelf of spark plugs
99	4	saw horses
100	3	welding helmets
101		cabinet of aerosol cans
102	7	containers of misc parts
103		assorted nuts and bolts, 5 shelves (A)
104		plumbing, 4 shelves (A)
105		electrical, 6 shelves (A)
106		outdoor games, 2 shelves
107		misc paint, 3 shelves (A)
108		assorted pick sticks
109	50	(or more) fiberglass poles for roping
110		old storage shed (A)
111		old, poorly insulated "work" shed (A)
112		gas storage box
113	9	gas cans (A)
114	2	2-cycle gas cans (A)
115		a 300-gallon diesel farm equip tank (A)
116	2	light posts (A)
117	2	12x12 booths (A)
118	2	12x24 booths (A)

- (A) still at Parks & Recreation
- (B) still at Parks & Rec Independence building(C) did not locate, as of 01-15-09

(Independence building administrative office equipment)

### old County Building-6th Floor

### 3 desks 3 Dell computers 3 Cisco telephones 3 2 4-drawer files 5 2-drawer file 4 waiting chairs 6 2 credenzas 7 8 copy machine 9 fax machine 10 printer

### still at Independence bldg admin'v office

- 3 desks 4-drawer file
- 3 book shelves keyboard table black box of computer supplies

(Independence building kitchen area)

### still at Independence building, kitchen

1	3	high chairs
2	5	bus tubs
3	2	5'x6' four-shelf storage racks
4	2	4'x6' four-shelf storage racks
5	_	walk-in cooler
6		portable keg tapper (cooler)
7	3	90-cup coffee urns
8	J	58-cup coffee urn
9	2	two-burner pot warmers
10	_	hard-mount coffee brewing system
11		meat slicer
12		two-light heat lamp
13		500-pound ice machine
14		dish washer
15		convection oven
16		six-burner stove and oven
17		four-burner stove and oven
18		four-tray steam table
19		8-foot prep table w/2-shelf top, stainless
20	3	plastic booster seats
21	26	plastic pitchers
22	3	cutting boards
23		assorted aluminum pots/pans
24		assorted serving trays/sheet pans
25		assorted plates/bowls/cups/saucers/ashtrays/glasses
26		assorted coffee carafes
27		three-shelf Rubbermaid cart
28		wooden cart
29		2-door freezer
30		3-door refrigerator
31		4-bin service containers
32	2	water jugs
33	2	old refrigerators
34		assorted coffee supplies

(Independence building break room)

### still at Independence building, break room

1	7	lockers
2		Rubbermaid bathroom cart
3	2	metal shelf units
4	2	metal storage cabinets
5		8-drawer credenza
6		automatic 10-cup coffeemaker/side burner
7	5	
8	2	Rubbermaid brute trash cans w/wheels
9	3	mop buckets and ringers
10	3	mops
11	2	4-foot dust mops
12		2-foot dust mop
13	2	push brooms
14		vacuum
15	3	small trash cans
16		letters for portable sign
17		assorted bathroom and cleaning supplies
18	2	broom and dust pans
19	3	wet floor signs
20	3	rolling chairs
21		tank vac
22		6-foot ladder

(Independence building front office)

### still at Independence building, front office

1	typewriter and stand
2	desk
3	chair, mat
4	rolling chair
5	5-shelf wooden bookcase
6	EL-12 laminator
7	4-drawer plastic bin of plastic letters for info sign
8	information sign
9	telephone

(Independence building back office)

### still at Independence building, back office

1		Dell computer w/monitor/keyboard/mouse
2		HP5590 scanjet
3		18v Black & Decker cordless broom w/charger, 2 batteries
4		paper cutter
5		desk
6		rolling chair
7		chair, mat
8		portable PA system
9		outdoor PA system w/supply bag and wireless mic
10		video cart w/television/DVD/VCR
11		AV cart w/overhead projector/slide projector
12		key box w/assorted keys
13		AED
14	6	Motorola talkabouts
15	6	Motorola walkie talkies w/chargers
16		adding machine
17		2-hole punch
18		bill counter
19		small cash box
20		assorted tools and supplies
≥1		cordless drill

(Independence building back store room)

### still at Independence building, back store room

1	22	5-foot round tables
2	2	6-foot round tables
3		4-foot wood table
4		floor scrubber
5	5	5-drawer file cabinets
6	3	5-drawer blueprint cabinets
7		podium
8		table top podium
9	22	
10		raffle barrel
11		portable bar
12		wheelchair
13		safe
14		portable A/V screen
15	4	portable fire extinguishers
16		chalkboard
17	4	aluminum easels
8		miscellaneous supplies
19	6	portable coat racks
20		4-foot table
<u>?</u> 1	44	8-foot tables
22	3	6-foot tables
23	183	green chairs
<u>?</u> 4	117	pink chairs
25	3	portable flags/bases (American/State/County)
96	5	carneted risers

(Independence building large hall)

### still at Independence building, large hall

1		cabinet
2		amplifier
3		radio
4		CD player
5		wireless mic
6		assorted mics and wires
7	2	bar stools
8	2	chair dollies
9	15	fake trees
10	2	fake bushes
11		fake plant

# RECYCLABLE PAPER

RESOLUTION NO.	FULL BOARD MEETING DATE:  AGENDA ITEM:				
MACOMB COUNTY, MICHIGAN					
<del></del>	receive and file the report provided by the Public Works Department regarding proposed economic stimulus projects				
INTRODUCED BY:_	Andrey Duzyj, Chair, Buildings, Roads and Public Works Committee				

COMMITTEE/MEETING DATE
BR&PW 2-2-09

DRAFV 2-2-09





Public Works Commissioner Macomb County

Andrey Duzyj, Chairman Buildings, Roads and Public Works Committee Jan. 22, 2009

Chairman Duzyj:

Here are lists of the projects the Macomb County Public Works Office is working on, and proposed projects that we would like to seek federal funding for through the Macomb County Board of Commissioners.

### **CURRENT PROJECTS**

1. We are now in the third phase of the North Gratiot Interceptor, a fivestage \$52 million sewer construction project that extends from Clinton Township to Lenox Township and includes Chesterfield Township and the Village of New Haven and a small section of Clinton Township. The latest stage is called Phase I, a \$13.7 million effort that entails construction of a 66-inch diameter, 2 ½ mile long interceptor from Joy Boulevard to 21 Mile parallel to the Interstate-94 Freeway. The entire North Gratiot Interceptor projects will provide much needed sewer capacity for this area. The final two phases will be let for bids within the next few months. One is called Phase 2, a \$12 million project that consists of installing a twin, 28-inch forced main from 21 Mile to 25 ½ Mile, and a pump station. The other stage, called Phases 3-4, will connect 4,100 feet of 36-inch gravity sewer from the pump station at 25 ½ Mile and Concordia Blvd. to the interceptor at 26 Mile. The first two phases, called Lenox Local and Phase V, are now complete. Attached is a newspaper article. "Ground Broken for New Sewer Line", which explains the scope of those two projects. All of these projects are financed through the sale of bonds, which the Macomb County Board of Commissioners pledged the full faith and credit of the county.

- 2. The Macomb County Public Works Office has three projects in various stages at the Chapaton Retention and Treatment Basin in St. Clair Shores. Total cost is \$4 million and are funded through the State Revolving Fund. The mostly costly is the refurbishment of two megaton dry weather pumps. (See newspaper article, "Major Pump Repairs to Avert Potential Backups"). One pump is now being repaired and the second pump will be done later this year. The motor for the first pump is being rehabbed in Kalamazoo and the pump is being renovated at Fairbanks Morse in Kansas City. Cost is \$1.4 million. The rehabbed motor/pump is expected to be back at Chapaton in April. The first project undertaken at Chapaton was the rehabilitation of the deck of the 28 million-gallon retention basin along with other structural repairs. Cost was a little over \$1 million. That project is completed. The final project is installation of a back up generator system priced at \$512,000. The backup system was inspired by the 2004 power failure that blacked out a good portion of Southeast Michigan and a subsequent power loss that cut off electricity to Chapaton. Brent Avery, operations manager at Chapaton, will be in attendance to answer questions about this projects.
- 3. An extensive manhole rehabilitation program started in October in St. Clair Shores (see newspaper article, "Crumbling Shores manholes get attention"). The program has been suspended during the winter and will resume this spring
- 4. Dredging and clean out of two drains on the Harrison-Clinton Township border. One is the Murdock Ballard Drain in the Harper-Metropolitan Parkway area and the other is the Blay Drain on Harper just north of 15 Mile. Start of both projects is imminent. These two drains are part of the network of 750 drains under the jurisdiction of the Macomb County Public Works Office.
- 5. The Macomb County Public Works Office will soon finalize the deal with the Detroit Water and Sewerage Department to take over 20 miles of interceptor sewers in Macomb County from DWSD and also joining with Oakland County to take ownership of another 19 Mile of interceptor. (See newspaper article, "Marrocco Signs deal to take over Detroit Interceptors.")

### PROPOSED ECONOMIC STIMULUS PROJECTS

- A. Asst. Chief Engineer Jim Pistilli is the point man from our office on proposed projects that fit in nicely with President Obama's economic stimulus package. A list of those proposed packages accompanies this package. Mr. Pistilli will be in attendance to answer questions.
- B. Here are two proposed open drain projects we feel would be suitable for federal funds. One would be a comprehensive clean out of 15 ½ miles of the Middle Branch Clinton River Drain, removing all silt, sediment, trees, brush and debris from the main channel through Sterling Heights, Clinton Township, Utica and Shelby Township, beginning at the confluence with the north branch and continuing upstream to the Mound Road crossing south of 24 Mile. Estimated cost: \$2.5 to 3.5 million. The second one would be another comprehensive cleaning of about 5 miles of the Harrington Drain in Fraser and Utica. Estimated cost: \$750,000 to \$1 million.

### Ground broken for new sewer line

Construction has started on six and a half miles of sanitary sewer interceptors in New Haven and Lenox Township that will provide the two communities much-needed sewer capacity to accommodate growth in those areas, said Macomb County Public Works Commissioner Anthony V. Marrocco.

Ground breaking was held Monday in front of the New Haven High School on Gratiot north of New Haven Road; and crews from Ric-Man Construction, of Sterling Heights, began immediately working on the \$19.4 million project. Ric-Man is the general contractor. Spalding DeDecker Associates Inc. of Rochester Hills is the design engineer on the project.

Participating in the groundbreaking ceremonies were Commissioner of Marrocco, Lenox Township Supervisor John Gardner, New Hayen of Mayor Pro Tem Deborah Mack, I Steve Mancini, president of Richard and Dave Lakin, president of Spalding DeDecker.

The two communities - along with Chesterfield Township - petitioned the Macomb County Public Works Commissioner to construct the sewers because existing lines in the area are nearing capacity, and the new interceptors were needed to accommodate current and expected new development, Commissioner Marrocco said.

"This also helps to prevent pollution because it allows people to disconnect from septic systems in areas where presently they do not have sanitary sewers," Marrocco said.

The new Lenox Township and New Haven sewers are part of a \$50 million sewer construction project in northeast Macomb County called the North Gratiot Interceptor. Chesterfield Township, which also needs more sewer capacity, is the third community included in the North Gratiot Interceptor program. The Chesterfield phase will be bid later.

The Macomb County Board of Commissioners, pledged the full

faith and credit of the county to finance the construction of more than 15 miles of sanitary sewer lines in the three communities through the sale of \$53 million in bonds.

The New Haven phase is called Phase V and the Lenox section is called The Lenox Local sewer. The new sewers will be built from 26 Mile in New Haven to just south of 31 Mile in Lenox Township, said Keith Graboske, chief engineer for the Macomb County Public Works Office.

These two projects will be built along the east side of Gratiot in the road right-of-way under permits from the Michigan Department of Transportation and the Road Commission of Macomb County.

The work consists of installing six and a half miles of 15 to 36 inch diameter sewer interceptors at a depth of about 25 to 30 feet. The portion in New Haven will be tunneled to minimize surface disrup-

tions. The Lenox portion will be installed using the open cut method of construction.

The Lenox Local line is expected to be substantially completed in about nine months, while Phase 5 is scheduled for completion in about six months. Commissioner Marrocco said.

"Homeowners will have access to their driveways at all times," George Nichols, project manager for Spalding DeDecker, said at a public hearing two weeks ago. About 25 residents and business people attended the hearing held at the Lenox Township Fire Hall. Nichols said traffic would be maintained at all times along Gratiot.

The construction route was videotaped prior to the start of construction to verify that the property will be restored to existing or better condition when the job is finished.

See SEWER on page 21

borrvoice 10-4-04

## Sewer

Continued from page 17

Jay Staup, senior contract administrator for Spalding DeDecker, told the audience that every effort would be made to minimize inconveniences for residents and businesses.

"We will do our utmost to make it as quiet as possible," Staup said. "We will not infringe on private property. The construction will be in the road right-of-way."

The engineering equivalent of 45,000 residents and business customers will ultimately be serviced by the new sewers, Staup said.

Lenox Township will pay the full cost of the local sewer, estimated to be \$16.1 million, because the sewer will serve only Lenox properties. The cost of Phase 5, which is \$3.3 million, will be divided between Lenox (67 percent) and New Haven (33 percent), since the sewer will handle flow from both communities.



Macomb County Public Works Commissioner Anthony V. Marrocco (center) digs the first shovel full of dirt during groundbreaking ceremonies for a \$19 million sewer interceptor project for New Haven and Lenox Township. Other participants in the groundbreaking held in front of New Haven High School are (from the left), Steve Mancini, president of Ric-Man Construction, Lenox Township Supervisor John Gardner, New Haven Mayor Pro Tem Deborah Mack and Dave Lakin, president of Spalding DeDecker Associates. Ric-Man is general contractor, and Spalding DeDecker is design engineer.

# Major pump repairs to avert potential backups

BY JULIE SNYDER C & G Staff Writer

rwo large flatbed trucks inching Onlookers may have noticed ng what looked like a gigantie. through the city on Dec. 12 carrybutane tanks.

25-foot high storm weather pump systems heading off to Kalamazoo Those were 180,000-pound, and Kansas City, Kan.

Macomb County Public Works Commissioner Anthony Marrocco ton Recention Treatment Facility at, Nine Mile and Jefferson is getting some much needed repairs to ensure thousands of customers in Eastpointe and St Clair Shores consaid the pump system at the Chapatinue to have superior sewer service.

"This is truly an amazing effort gers," Marrocco said of the massive endeavor to transport the motor that combines the ingenuity and savvy of engineers, mechanical and pump last week. "It's a once-indesigners and highly skilled riga-lifetime rehabilitation project. Everything about it is amazing.

ported to Hego Inc. in Kalamazoo trailer to the Fairbanks Morse -ton motor was transpump was carted away on a flatbed for rehabilitation, while the 30-ton he Z

The contractor had to build a motor, pump and discharge tube system that was used to move the system from Chapaton to awaiting 30,000-pound steel rail and dolly flat bed trailers.

and replace them with a sliding Before the massive system could be removed from Chapaton, glass measuring 16 feet by 22 feet workers had to remove panels of door system.

Ken Hoskins, engineering manager for Fairbanks Morse, had tractor in Kalamazoo. Because-of to map out a roure to the subconthe height of the pump, a special highway permit was needed.

Interstate 94 was the major exit ramps were used to bypass lowlying overpasses and bridges.

The last part of the system involved a 30-ton tubing apparatus that was shipped to Detroit for rehabilitation.

is being funded by revenue from year-old pump system, which was showing signs of deterioration, had which involves the repair of two the State Revolving Fund. "The 40-The \$1.4 million project pumps in two consecutive years

Pump Corp. in Kansas City for to be rehabilitated or risk a failure that could cause sewage backup into homes in St. Clair Shores and Eastpointe," Marrocco said.

"We still have two other similar pumps at Chapaton, so residents can be assured that there is no danger of said Brent Avery, superintendent of a sewage backup into basements, the Chapaton Retention Basin.

either in April 2009 when this Avery said. A third pump will be Another pump will be repaired pump is reinstalled, or in October, repaired in 2010.

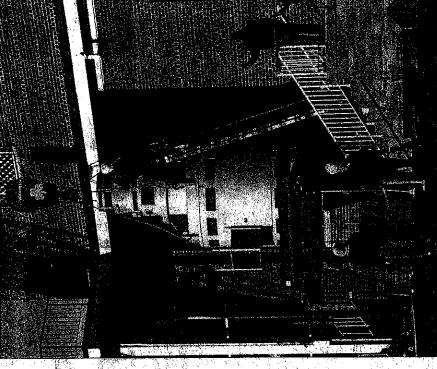
alarmed," Avery said. "We chose "Residents shouldn't be pump system to minimize the this time of the year to removed the chance of a major rain event."

highway used, and entrance and carry combined sewer overflows from the Eight Mile sewer system Avery said the pump is used to runnel into the treatment basin at Chapaton during storms.

"When they were first installed 40 years ago, they were unique, the

ing work done in 1987. "This is a The pumps had some refurbishcomplete tope to bottom rehabilitation project

he 2,750 horsepower motor can pump as many as 231,000 gallons a minute, Avery said.



Fairbanks, Morse crews, glide the 54,000-pound motor out of the Chapa ton Retention Treatment Facility on a specially designed dolly system.

12-24-08

## Crumbling Shores manholes get attention

The Macomb Da

More than 1,000, decades-old, bricklined manholes will be repaired and rehabilitated as part of a \$3 million program that dates back to the start of the new century.

The latest phase entails the rehabilitation of 700 crumbling manholes in St. Clair Shores in an area bounded by Eight Mile, Nine Mile, Jefferson and the Interstate-94 Freeway.

About 100 of those manholes have been fixed in an area west of Greater Mack and south of Nine Mile since the repair program started last month.

T.R. Pieprzak of China Township in St. Clair County is the contractor on the \$1 million job.

Once that project is finished, workers will head north of Nine Mile in the Shores to tackle 400 more deteriorating manholes. The Michigan Department of Environmental Quality is now reviewing that rehabilitation proposal. Engineering estimates peg the project at a cost of \$800,000.

These two projects are coupled with



Submitted photo Macomb County Public Works Commissioner Anthony V., Marrocco, left, and engineer Dave Wicke inspect a manhole in St. Clair Shores.

the repairs on 900 manholes in 2000-2001 north of 10 Mile to prevent storm water infiltration into the sewer syscen, said Macomb County Public Works Commissioner Anthony V. Marrocco. The cost of that project was 81.9 million. "That program dealt strictly with placing internal and external seals on the top portion of the manholes (also

called chimneys) to stop storm water from entering the sanitary sewer system," Marrocco said.

"The biggest effect of water infiltration is that the extra flow taxes the sewer system, the carrying capacity of the system," he said. "Any water infiltration into the sanitary system has to go to the Detroit Sewage treatment plant for treatment and the city has to pay it. That's why it's important to tighten to system to keep the storm water out.

"The goal of all these projects is to maintain the entire sanitary sewer infrastructure. A large number of the manholes are 50 years old, or older, and most have never had any sort of maintenance," Marrocco said.

An inspection of the manholes before they were rebuilt showed that some bricks had become dislodged from the wall of the manholes and other bricks had fallen into the base of the structure, said Dave Wicke, an egineer with Anderson, Eckstein & Westrick, the Shelby Township engineering firm in charge of the projects. In some cases, the frame and cover

were misaligned with the manhole because of the deterioration.

Wicke said the rehabilitation will include installation of new frames and covers as well as internal and external seals, rebuilding sections of the manholes, sealing, patching or grouting sections of the chimney and rebuilding new benches or channels.

Benches are platform-like structures at the bottom of the manhole that helps keep the sewage flow going through the structure.

one other interesting project associated with the manhole repairs was the program to locate 100 manholes that had been buried. Buried manholes were discovered when workers were cleaning and televising sewers in the city several years ago, Wicke said.

"Who knows how they got buried," Wicke said. "Lack of maintenance, residential landscaping and fill from when residents were building their houses are the most likely causes. Some manholes located in parking areas were paved over. The buried manholes were raised to surface grade."

Macomb Daily 11-27-08

## Marrocco signs deal to take over Detroit sewer interceptors

## Move will save Macomb \$50 million in interest costs

The Macomb County Public Works Office will save county sewer customers \$50 million in interest costs over the next 30 years by taking ownership of 20 miles of sewer interceptors from Detroit, and sharing jurisdiction over another 19 miles of Detroit interceptor with Oakland County.

The change is the result of a comprehensive global agree-

ment that was recently signed in U.S. District Court in Detroit.

Macomb County Public Works Commission Anthony V. Marrocco said besides the reduction in interest expense, the county will be able to control operation and maintenance of the sewers instead of depending on the Detroit Water and Sewage Department for service.

"This agreement is a major breakthrough for Macomb County sewer customers, including customers in Chesterfield Township, Macomb Township, Lenox Township, and New Haven," Marrocco said. "We will be achieving a major cost savings for our customers and will for the first time, be able to exercise local control over local interceptors."

Another side benefit of the transaction, Marrocco said, is that Macomb County will be able to use the capacity of the interceptors to regulate excess flow during storm events.

"There is a huge amount of storage capacity in the interceptors, some of which are more than 12 feet in diameter," he said.

Detroit will continue to own and operate its waste-

water treatment plant downriver and the retail-wholesale collection systems within its borders, while giving up title to the interceptors in Macomb County, Detroit does not own any interceptors in Oakland and Wayne counties.

Marrocco will also be a member of a special fivemember director's council that will resolve disputes filed by communities over such mat-

ters as sewage rate hikes. The council was part of the global agreement. Complaints will first go to a steering committee, and

if issues cannot be resolved at that level, they will go to the director's council for resolution. Other members of the council include Detroit Mayor Ken Cockrell, Wayne County Executive Robert Ficano, Oakland County Water Resources Commissioner, and the chairman of

me Voice

the Southeast Michigan Consortium for Water Quality.

"The council will give our communities more say in the operation of the DWSD and a structured forum for settling disputes without the time and expense of litigation," Marrocco said.

Under the agreement finalized Dec. 18 after four years of negotiations, the Macomb County Public Works Office will take over sole control of interceptors that serve Macomb-only customers. The Macomb-only interceptors are the Garfield interceptor, 15-Mile interceptor, Lake Shore interceptor extension.

The Clintondale Pump Station near Union Lake Road and 15 Mile, will also be taken over by Macomb. The pump stations carries sewage from Harrison, Chesterfield, Lenox, New Haven and a portion of Clinton Township to the interceptor.

The Macomb County Wastewater Disposal District provides sewage service for more than 400,000 residents in 11 communities: townships of Chesterfield, Clinton, Harrison, Lenox, Macomb, Shelby, and Washington, cities of Fraser, Sterling Heights, and Utica and village of New Haven.

Macomb will share jurisdiction with Oakland County over the Oakland-Macomb interceptor, which services a major portion of Sterling Heights, Shelby Township and the city of Utica, plus a part of Oakland County called the Clinton-Oakland District.

The Oakland-Macomb system consists of some 19 miles of sewers. It includes the Edison Corridor Interceptor, Oakland Arm and Avon Arm interceptors. They are physically located in Macomb County but serve customers in Macomb and Oakland counties.

Macomb County will refinance the cost of construction of the Macomb-only interceptors, estimated to be \$82 million, by selling its own bonds to pay off Detroit.

The \$83 million is the principal amount still owed by Macomb on bonds that financed the Macomb-only interceptors. The original price tag was \$100 million but Macomb received a \$17 million credit from Detroit as part of the negotiations.

Macomb will save money on the refinancing because it will not be paying a 2.5 percent surcharge on the bond interest rate that Detroit imposed when it bonded for the interceptors. Macomb and Oakland counties will not have to pay Detroit for sale of the Oakland-Macomb interceptor because there is no outstanding debt on that system. However, the 40-year-old Oakland-Macomb interceptor needs major repairs, estimated at some \$158 million.

Cracked pipes, leaking joints and corroded concrete were discovered in the Oakland-Macomb line during a comprehensive study conducted earlier in 2008 by NTH Consultants. DWSD commissioned the study following the collapse of the 15 Mile interceptor near Hayes Road in Sterling Heights in August 2004.

Oakland and Macomb have advertised for a national engineering firm to scrutinize the Macomb-Oakland portion of the NTH report to determine if its findings and recommendations for repairs are justified.

If the Macomb-Oakland study supports the NTH report, the sale of the interceptors to Macomb-Oakland will proceed. If the study finds issues, the parties will return to the bargaining table to work out the problems.

Other terms of the settlement include agreement on a new 30-year contract with DWSD for sewer service and resolution of a dispute with Detroit over the cost charged

to DWSD for its 800-megahertz radio system. The terms provide for Detroit to repay \$27 million to DWSD, which will be allocated equally between its water and sewer divisions and its retail and wholesale customers. The exact amount to be credited to Macomb County sewer customers remains to be calculated.

Union workers at DWSD have said they will challenge the sale of the interceptors to Macomb and Oakland counties on the grounds that the Detroit City Charter requires a public vote to approve the sale of city assets necessary for city operations.

Marrocco said that issue was researched by Detroit lawyers and they concluded the sale did not violate the city charter because the sewage will continue to flow to Detroit for treatment at its wastewater treatment plant and thus, ownership of the interceptors is not necessary for the operation of the DWSD system.

It is anticipated the Macomb County Wastewater Disposal District, headed by Marrocco, will manage the Macomb-only interceptors while an authority such as an inter-county drainage district will govern the Macomb-Oakland system.

distributed 2-2-09

	Economic Stimulus Projects for the comb County Public Works		ar			
Project Name	Status	Cost	Time to Bid (Days)	Time to Complete (Days)	# Jobs Created	\$s per Job
Chapaton Dry Weather Pumps Replacement	Plans and Spec Ready	\$650,000	30	240	9.3	\$70,000
nspection of the 8 1/2 Mile Relief Drain	Proposal Received	\$1,000,000	30	180	14.3	
Chapaton Storm Water Pump #1 Rehabilitation	Plans and Spec Ready	\$2,250,000	120	270	32.1	
Chapaton Basin Segmentation	Preliminary Design Underway	\$1,500,000	120	270	21.4	I
Chapaton Chlorination System Improvements	Preliminary Engineering Underway	\$575,000	160	180	8.2	
Chapaton Flushing System Improvements	Preliminary Engineering Underway	\$1,200,000	160	360	17.1	
Chapaton Wet Well and Trash Rack Improvements	Preliminary Engineering Underway	\$600,000	160	270	8.6	J
Gloede Drain Enclosure	Plans and Spec Ready	\$3,800,000	60	270	54,3	1
Open Drain Cleanout	Preliminary Engineering Underway	\$3,000,000	180	180	42.9	]
lorth Hayes Interceptor Macomb element	Preliminary Design Underway	\$2,500,000	160	360	35.7	1
forth Hayes Interceptor 23 to 26	Preliminary Design Complete	\$25,000,000	120	540	357.1	
North Hayes Interceptor 26 to 32	Preliminary Design Complete	\$22,000,000	120	540	314.3	
Clintondale Pump Station and Force Main Rehabilitation	Preliminary Engineering Complete	\$25,000,000	160	540	357.1	- 1
Dakland Macomb Interceptor Repairs	1	\$160,000,000	120	720		
	Preliminary Engineering Complete				2,285.7	
rump Station and Sewer to Mt. Clemens	Preliminary Design Underway	\$7,000,000	180	540	100.0	
#CWDD - Asset Management	Preliminary Engineering Complete	\$300,000	90	180	4.3	
ICWDD - Rain Gauge Network	Preliminary Engineering Complete	\$350,000	120	180	5.0	
Septage Disposal Station	Preliminary Engineering Complete	\$2,000,000	160	360	28.6	J
on Huer Pump Station Control Via SCADA	Preliminary Engineering Complete	\$60,000	90	120	0,9	1
Bon Heur Ventilation System Rehabilitation	Preliminary Engineering Complete	\$175,000	120	180	2.5	]
on Heur Electrical System Rehabilitation	Preliminary Engineering Complete	\$80,000	120	180	1.1	1
Son Heur Screw Pump Rehabilitation	Preliminary Engineering Complete	\$75,000	120	180	1,1	i
iolet Pump Station Control Via SCADA	Preliminary Engineering Complete	\$50,000	90	120	0.7	]
lartin RTB Instrumentation and SCADA Additions	Preliminary Engineering Complete	\$135,000	90	120	1.9	1
fartin RTB Flushing System Rehabilitation	Preliminary Engineering Complete	\$625,000	120	270	8.9	

Totals \$259,925,000 3,713.2

Projects Ready to bid in less that 60 days

Projects Ready to bid within 120 days

Economic Stimulous Package.xls

1/26/2009

## RECYCLABLE PAPER

RESOLUTION NO	FULL BOARD MEETING DATE:
	AGENDA ITEM:
	MACOMB COUNTY, MICHIGAN
RESOLUTION TO_	receive and file the report provided by the Road Commission
INTRODUCED BY:_	Andrey Duzyj, Chair, Buildings, Roads and Public Works Committee

COMMITTEE/MEETING DATE
BR&PW 2-2-09

\_\_\_\_\_\_

## Submitted to Rep. Levin:

Concrete Pavement Repair Program - \$5,000,000 – includes the following locations:

- 13 Mile from Utica Road to Gratiot
- 14 Mile from Hayes to Kelly
- Utica Road from 14 Mile to north of 15 Mile.
- 15 Mile east and west of Utica Road
- 15 Mile from Kelly to Beaconsfield
- 19 Mile from Hayes to Romeo Plank
- Schoenherr from Clinton River to Canal

The following roadway segments are in need of rehabilitation or reconstruction:

- Resurface 12 Mile Road, east of Hoover to east of Van Dyke, City of Warren, 2 miles, \$3,150,000
- Resurface 10 Mile Road, Phlox to east city limit, Cities of CenterLine, Warren and Roseville, 3 miles, \$5,670,000
- Resurface Quinn Road, Gratiot to Harper, Clinton Township, 2 miles, \$2,520,000
- Resurface 14 Mile Road, Gratiot to Harper, Clinton Township, Roseville, St. Clair Shores, 2 miles, \$2,100,000

Projects that could be bid in 2009 and finished in 2010:

- Reconstruct Metro Parkway from Groesbeck to Gratiot, Clinton Township, 1.2 miles, \$8,560,000
- Reconstruct 15 Mile Road from Gratiot to Harper, Clinton Township, 1.5 miles, \$9,500,000
- Reconstruct 14 Mile Road from Kelly to Gratiot, Clinton Township, Fraser, 1 mile, \$6,700,000

## Submitted to Rep. Miller:

## Reconstruction:

 Reconstruct and widen 26 Mile Road from Van Dyke to M53 – Shelby/Washington – 0.5 miles - \$4,500,000

## Resurface:

- 21 Mile Road from M53 to Hayes Shelby 2 miles \$400,000
- 21 Mile Road from Garfield to Heydenreich Macomb 2 miles -\$400,000
- 23 Mile Road from Dequindre to Mound Shelby 2.2 miles \$440,000
- 25 Mile Road from Dequindre to Shelby Shelby 1.3 miles \$260,000
- Indian Trail, north to 23 Mile Road Macomb 0.5 miles \$100,000
- Mound Road from 23 Mile to 25 Mile Shelby 2 miles \$400,000
- Mound Road from West Road to 28 Mile Washington 1.3 miles -\$260,000
- Mound Road from 29 Mile to Inwood Washington 0.5 miles \$100,000
- Ryan Road from 22 Mile to 23 Mile Shelby 1 mile \$200,000
- South River Road from Prentis to Venetian Harrison 1.5 miles -\$300,000

- North River Road from Mt. Clemens city limit to Bridgeview Harrison 2.1 miles - \$420,000
- 21 Mile Road from Hayes to Garfield Macomb 1 mile \$200,000
- 21 Mile Road from Heydenreich to Card Macomb 1 mile \$200,000
- 26 Mile Road from Schoenherr to Jewell Shelby/Washington 1 mile \$200,000
- 26 Mile Road from Place to Gratiot Lenox/Chesterfield 1.7 miles -\$340,000
- 29 Mile Road from Campground to Schoenherr Washington 2 miles -\$400,000
- 29 Mile Road from Hartway to North Avenue Ray 1 mile \$200,000
- 32 Mile Road from Power to Riverbend Bruce 0.5 miles \$100,000
- 32 Mile Road from Omo to Welding Lenox/Richmond 3.5 miles -\$700,000
- Armada Center from True to North Avenue Armada 1 mile \$200,000
- Armada Ridge from Burman to Lowe Plank Richmond 5 miles -\$995,000
- Bordman Road from North Avenue to Briarwood Armada/Richmond 2.26 miles - \$450,000
- Jefferson from Cotton to Altman Chesterfield 2.6 miles \$520,000
- Jewell Road from 28 Mile to 29 Mile Washington 1.12 miles \$225,000
- Mound Road from 31 Mile to Cusick Lane Washington 0.82 miles -\$165,000
- Ryan Road from West Utica to Hamlin Shelby 1.6 miles \$320,000
- Shelby Road from 23 Mile to 25 Mile Shelby 2 miles \$400,000
- Van Dyke from Carpenter to 23 Mile Shelby 2.4 miles \$4,540,000
   Bridges:
  - 34 Mile Road over Cemetery Creek, Total cost \$550,000
  - 26 Mile over a branch of the Kirkham Drain \$765,000
  - 28 Mile Road over the north branch of the Clinton River \$1,681,000
  - Card Road over the north branch of the Clinton River \$3,523,000

## 2008 - 2009 CONSTRUCTION BUDGET

	PROJECT		TC	OTAL COST
Metro Parkway (Bid 2008, Build	: :			
2009)	Garfield to Groesbeck	6 lane boulevard	\$	8,684,108
12 Mile (Bid 2008/Build in 2009)	Groesbeck to Gratiot	resurface	\$	1,650,000
12 Mile Road	Hayes to Groesbeck	resurface	\$	795,000
26 Mile (Bid 2009 Build in 2010)	Van Dyke to Jewell	6 lane boulevard	\$	15,000
23 Mile (Bid 2008, Build in 2010)	over NB Clinton River	bridge replacement	\$	250,000
Concrete Pavement Repair Program	County-wide	patching	\$	280,000
Bituminous Resurfacing Program	County-wide	resurface	\$	500,000
Rural Pavement Preservation	County-wide	resurface	\$	302,441
Tilch	M59 to 21 Mile	resurface	\$	663,000
10 Mile Road	Phlox to Kelly	resurface	\$	2,188,500
10 Mile Road	I94 to Harper	resurface	\$	1,101,500
Van Dyke (Bid 2009, Build in 2010)	23 to 24 Mile Road	widen to 5 lanes	\$	1,200,000
Romeo Plank	Canal to Cass	improvemenrt	\$	2,093,000
Hayes Road	12-1/2 Mile to 14 Mile	resurface	\$	2,054,000
10 Mile Road	Lawrence to West City Limit	resurface	\$	920,000
10 Mile Road	Ryan to Mound	resurface	\$	1,334,000
Dalcoma	19-1/2 Mile to M59	construct new road	\$	1,740,000
14 Mile Road	over Red Run Drain	bridge replacement	\$	4,000,000
Riverbends	south of 22 Mile to Utica City Limit	path	\$	440,000
Bridgeview	over Clinton River	bridge replacement	\$	6,853,861
Irwin	over east branch of Coon Creek	bridge replacement	\$	33,000
30 Mile Road	over Healy Brook Drain	bridge replacement	\$	55,000
26 Mile Road	over Kirkham Drain	bridge replacement	\$	30,000
26 Mile Road	over branch of the Kirkham Drain	bridge replacement	\$	110,000
Cass Avenue	M97 to Clinton River Bridge	widen to 5 lanes	\$	3,406,000
Cass Avenue	Clinton Bridge to 19-1/2 Mile	widen to 5 lanes	\$	4,127,000
Romeo Plank	M59 to 21-1/2 Mile	widen to 5 lanes	\$	6,289,500
Romeo Plank	19-1/2 Mile to M59 over Gloede Drain	bridge replacement; widen to 5 lanes	\$	5,255,500
TOTAL		: : : :	\$	56,370,410

TRAFFIC PROJECTS			
	PROJECT	тот	AL COST
Signal Upgrades/ Modernizations	21 Mile & Garfield, Heydenreich, Card	\$	420,000
New Signals	25 Mile & Schoenherr	\$	140,000
Pavement Marking Grinding	County-wide	\$	15,000
ADA Ramps	County-wide	\$	20,000
Guardrail Installations/ Upgrades	County-wide	\$	225,000
ITS ATMS (carryover from 2008)	Mound, Metro Parkway and Harper	\$	1,468,240
Signal Optimization (carryover from 2008)	Garfield, Hayes and Harper	\$	350,000
Signal Optimization (carryover from 2008)	Metro Parkway	\$	200,000
ATMS System and Signal Optimization	Connectors from I-94 to Harper	\$	380,000
Signal Upgrades/ Modernizations (carryover from 2008)	Misc. on Harper, Garfield, Hayes and Little Mack	\$	745,650
Signal Upgrades/ Modernizations (carryover from 2008)	Garfield & Clinton River, 14 Mile & Garfield, 14 Mile & Utica, 10 Mile & Little Mack, 19 Mile & Hayes	\$	420,000
Misc. Actuation	11 locations	\$	311,000
Wireless Communications Systems	County-wide	\$	500,000
Signal Upgrades/ Modernizations	Misc. Schoenherr from Toepfer to Canterbury	\$	915,000
TOC Operations, Maintenance & Equipment	County-wide	\$	625,000
Signal Upgrades/ Modernizations	21 Mile & North, Schoenherr, VanDyke & Hayes; 23 Mile at Van Dyke, Hayes & Schoenherr; 14 Mile & Hoover/Maple	\$	1,155,000
TOTAL		\$	7,889,890

<u>Project</u>	<u>Location</u>	Description	Total Cost	<u> 6 Year Pla</u>
CONGESTION REL	IFF			
Congestion Rel		Widen to 5 lanes	\$ 7,355,000	
Cass Avenue Cass Avenue	M97 to Heydenreich	Widen to 5 lanes	\$ 3,500,000	
	19-1/2 Mile to M59	Widen to 5 lanes	\$ 4,500,000	
Romeo Plank	M59 to 23 Mile	Widen to 5 lanes	\$ 13,500,000	<u>.                                    </u>
Romeo Plank	21-1/2 to 24 Mile	Widen to 5 lanes	\$ 12,500,000	
Hayes Road	Romeo Plank to Fairchild	Widen to 5 lanes	\$ 12,500,000	<u> </u>
23 Mile Road				
North Avenue	M59 to 23 Mile	Widen to 6 lane blvd	\$ <u>13,</u> 500,000	
Van Dyke	23 Mile to 26 Mile	Widen to 5 lanes	\$ 14,000,000	
26 Mile Road	Van Dyke to Schoenherr	Widen to 6 lane blvd	\$ 10,500,000	
26 Mile Road	Gratiot to County Line	Widen to 6 lane blvd	\$ 16,500,000	
Metro Parkway	Gratiot to I94	Widen to 6 lane blvd	\$ 12,000,000	
Utica Road	Hayes to Van Dyke	Widen to 5 lanes	\$ 25,000,000	
21 Mile	North Ave to Schoenherr	Widen to 5 lanes	\$ 25,000,000	
Mound Road	17 Mile to M59	Add 1 lane NB/SB	\$ 5,000,000	
14 Mile Road	Kelly to Gratiot	Widen to 5 lanes	\$ 5,600,000	
15 Mile Road	Gratiot to Harper	Widen to 5 lanes	\$ 6,750,000	
Jefferson Avenue	21 to 23 Mile	Widen to 5 lanes	\$ 20,000,000	
23 Mile Road	Mound to Dequindre	Widen to 5 lanes	\$ 13,500,000	
TOTAL - CONGEST	TION RELIEF		\$ 228,705,000	
PAVE				
24 Mile Road	Broughton to Foss	Pave 2 lanes	\$ 800,000	
24 Mile Road	Card to North Avenue	Pave 2 lanes	\$ 800,000	
24 Mile Road	North Avenue to Chesterfield		\$ 1,600,000	
Fairchild	21 to 23 Mile	Pave 2 lanes	\$ 1,750,000	
Luchtman Road	25 to 26 Mile	Pave 2 lanes	\$ 750,000	
22 Mile Road	North Avenue to Fairchild	Pave 2 lanes	\$ 500,000	
Garfield	22 to 23 Mile	Pave 2 lanes	\$ 1,000,000	
Garfield	23 to 24 Mile	Pave 2 lanes	\$ 1,000,000	
Garfield	24 to 25 Mile	Pave 2 lanes	\$ 1,000,000	
Omo Road	33 Mile to Boardman	Pave 2 lanes	\$ 4,500,000	
<u> </u>		Pave 2 lanes	\$ 2,500,000	
34 Mile Road	Gratiot to Groesbeck	Reconstruction	\$ 5,000,000	
Cass Avenue		Pave 2 lanes	\$ 3,000,000	
Dequindre	33 to 36 Mile	Pave 2 lanes	\$ 1,600,000	
31 Mile Road	Mound to Sisson			
29 Mile Road	Haven Ridge to Gratiot	Pave 2 lanes	\$ 1,900,000	···
Lowe Plank	32 to 33 Mile	Pave 2 lanes	\$ 750,000	
34 Mile	Campground to Dequindre	Pave 2 lanes	\$ 5,000,000	
TOTAL - PAVE			\$ 33,450,000	

Project	Location	Description		Total Cost	6 Year Plan
RESURFACE					
12 Mile Road	Lorraine to Harper	Resurface 5 lanes	\$	8,200,000	
10 Mile Road	Ryan to Harper	Resurface 4-5 lanes	\$	10,600,000	
14 Mile Road	Gratiot to Harper	Resurface 2 lanes	\$	1,125,000	
Romeo Plank	Canal to Cass Ave	Resurface 2 lanes	\$	1,300,000	
Tilch	M59 to 21 Mile	Resurface 2 lanes	\$	750,000	
Hayes Road	12-1/2 to 14 Mile	Resurface 4 lanes	\$	1,350,000	
Harper Avenue	13 Mile to Metro Parkway	Resurface 3 lanes	\$	2,600,000	
Quinn Road	Gratiot to Harper	Resurface 3 lanes	\$	1,500,000	
Auburn Road	M59 to Dequindre	Resurface 2 lanes	\$	1,900,000	
TOTAL - RESURFACI	E		\$	29,325,000	
INTERSECTION IMPR	ROVEMENTS				
Baker/Washington		Widen R/L turn lanes	\$	750,000	
Cotton/Sugarbush		Widen R/L turn lanes	\$	750,000	
29 Mile/Romeo Plank		Widen R/L turn lanes	\$	750,000	
29 Mile/North Ave		Widen R/L turn lanes	\$	750,000	
25 Mile/Romeo Plank		Widen R/L turn lanes	\$	750,000	
25 Mile/Schoenherr		Widen R/L turn lanes	\$	750,000	
TOTAL - INTERSECT	ON IMPROVEMENTS		\$	4,500,000	
OTHER		NIV.	<u> </u>		
Hike/Bike	M59 to Riverbands		\$	1,500,000	
Hike/Bike	Riverbends to 25 Mile		\$	2,000,000	
Hike Bike	Utica to Clinton River Rd		\$	2,000,000	
Bay to Bridge	Metro to Hooker		\$	10,000,000	
Bridges	20 structures		\$	25,000,000	
TOTAL - OTHER			\$	40,500,000	
GRAND TOTAL			\$	336,480,000	

## MEMORANDUM

TO:

**Board of County Road Commissioners** 

FROM:

Robert P. Hoepfner, P.E., County Highway Engineer

DATE:

**November 25, 2008** 

In order to keep the Board of Road Commissioners apprised of the status of the Macomb County Bridge Program, I offer the following information:

## ☐ These structures have been completed:

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		Final Construction
		Cost/as Bid Cost
۶	Armada Center over E.B. Coon Creek (CB)	574,552.61
A	Schoenherr over Red Run River	276,994.99
۶	Harper over the Clinton River Spillway	453,385.32
$\triangleright$	Garfield over the Clinton River	208,946.49
>	Gramer over the Harrison Drain	238,363.94
<b>A</b>	McPhall over the E.B. Coon Creek (CB)	430,591.04
>	25 Mile Road over the Deer Creek	483,900.91
×	Fairchild over the Deer Creek (CB)	646,881.48
×	28 Mile over the Kirkham Drain	392,793.71
<b>A</b>	29 Mile over the Corey Drain	164,830.93
>	Bates Road over Bark Drain	
<b>A</b>	Fairchild over the Ahrens Drain	412,843.90
>	Jewell Road over the Taft Drain	216,218.95
>	Weber Road over the Belle River (CB)	2,605,526.96
×	28 Mile over the Salt River (CB)	842,197.56
>	Gates Road over East Mill Lake Outlet	364,526.12
>	29 Mile Road over Deer Creek	309,267.54
>	27 Mile Road over Tupper Brook (CB)	554,208.20
>	West Road over Field Drain	226,271.64

## These structures have been completed:

۶	31 Mile Road over Tributary Stony Creek	438,493.36
>	31 Mile Road over E. B. Coon Creek (CB)	1,134,444.61
>	Russ road over Wheeler Drain	390,154.15
<b>A</b>	29 Mile Road over E. B. Coon Creek	816,419.48
>	33 Mile Road over Ward Drain	191,777.66
۶	34 Mile Road over E. Pond Creek/Fisher Lake Outle	et 299,053.59
>	McKay Road over N.B. Clinton River (CB)	1,215,567.38
>	Hayes Road over Price Brook Drain (CB)	1,179,584.68
×	Mt. Vernon Road over Tributary to Stony Creek	\$ 700,953.70
~	Lowe Plank Rd over Tributary Salt River	260,363.91
~	Irwin Rd over E.B. Coon Creek	485,286.00
4	30 Mile Rd over Healy Brook	<u>614,956.00</u>
	<b>Total Construction Cost</b>	\$17,129,356.81

Final Construction Cost

## The following structures will be advertised for bidding in 2008:

Bridgeview over Clinton River	7,000,000.00
Romeo Plank Rd over Gloede Drain	3,700,000.00

## The following structures are currently being designed or design completed:

		Est Start Dt	Est. Const Costs
$\triangleright$	Card Road over N.B. Clinton River	2008	3,100,000.00
	Shelby Road over Conrail	2008	585,968.97
	Hagen Road over Deer Creek	2009	650,000.00
Þ	Bordman Rd over E.B. Coon Creek	2009	585,000.00
	34 Mile Rd over Cemetery Creek	2009	385,492.50
	*26 Mile Rd over Kirkham Drain	2007	950,000.00
	26 Mile Rd over Branch Kirkham Drain	2008	950,000.00
	28 Mile Rd over N.B. Clinton River	2009	1,430,000.00
	*14 Mile Rd over Red Run	2009	4,070,000.00

<sup>\*</sup>Also to receive MDOT Local Bridge Funding, (95% of eligible construction cost)

In addition to these construction costs an additional sixteen percent (16%) will be added to cover Design Engineering, Construction Engineering, Construction Inspection, and Testing.

WJS.gjd

## TRAFFIC SIGNAL OPTIMIZATION, MODERNIZATION AND TRAFFIC OPERATIONS

- 1. Surveillance and Communications \$5,000,000
- 2. Vehicle Detection \$10,000,000
- 3. Signal Upgrades \$8,000,000
- 4. Traffic Operations \$2,000,000